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March 22, 2013

Mr. Robert E. Aston, P.G.
U.S. Environmental Protection Agency
Region 7, Air and Waste Management Division
Waste Remediation and Permitting Branch
11201 Renner Boulevard
Lenexa, KS 66219

Subject: ISCO Pilot Test Summary
Sauer-Danfoss, Inc.
2800 East 13th Street
Ames, Iowa

Dear Mr. Aston:

Fehr Graham has completed the chemical oxidation pilot test. The test procedure, methodology, and duration were as specified in the Corrective Action Plan Pilot Study dated May 2011. In this document, the proposal to conduct a chemical oxidation pilot test using Klorur® activated sodium persulfate supplied by FMC Corporation was discussed. More specifically, Fehr Graham submitted to FMC the proposed treatment volume to be affected along with site specific contaminant and geochemistry conditions both in aqueous phase and solid phase. In total about 19,000 pounds of sodium persulfate and 25,800 pounds of sodium hydroxide activator has been deployed across the targeted treatment area round monitoring well MW-R13.

The initial phase of the pilot test was conducted during the week of July 18, 2011. Upon arrival to the site, the Health and Safety Plan contents were discussed with the subcontractors and all present were required to sign acknowledging adherence to the Plan. A total of 95 temporary points were completed across an area of about 2,500 square feet using a manifold system mounted to a stainless steel skid with chemically resistant pipe fittings, seals, hoses, and diaphragm pump. Potable water purchased from the City of Ames metered hydrant was added to the polypropylene tank, followed by pouring the appropriate mass of persulfate salt, then carefully adding the appropriate amount of sodium hydroxide activator. Recirculation using the diaphragm pump occurred during batching and lasted for a minimum of about 5-10 minutes (assuming 100-200 gallon batch and pump capacity of about 30 gal/min). All hoses were then connected and secured to the Geoprobe tooling, followed by opening all valves, and engaging the pump. A total of roughly 20 gallons of solution was injected at each point. Total flow and injection pressure were measured or estimated during oxidant delivery, and averaged around 10 gal/min at a pressure of 80 psi or less, respectively.

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Baseline dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, and specific conductance were measured at the monitoring wells MW-10, MW-R13, and MW-R14. By December 2011, persulfate continued to show activity throughout the groundwater system as documented by increased dissolved oxygen and ORP measurements at each of the three (3) monitoring wells. Specific conductance measurements were generally within normal range at the monitoring wells MW-10 and MW-R14, however, dramatically increased by the morning of the fourth (4th) day at MW-R13. Performance groundwater sampling conducted about two (2) months, four (4) months, and during the annual sampling since completion of the initial phase, concluded a significant reduction in groundwater contaminant concentrations. For example, at monitoring well MW-R13, tetrachloroethylene concentrations in October 2010 were their maximum of 10.3 mg/L; however, by December 2011, a decrease to 3.15 mg/L was observed. Similarly, 1,1-dichloroethylene concentrations were near their maximum of 5.11 mg/L, but had been reduced to 0.251 mg/L by December 2011. Finally, 1,1,1-trichloroethane was measured at 6.24 mg/L in 2010 and had been reduced to 1.05 mg/L as of December 2011. Upon completion of the December 2011 sampling, plans to initiate the second phase of the pilot test began.

Starting on January 31, 2012 until February 10, 2012, another 98 temporary injection points were completed using Klozur® activated sodium persulfate manufactured by FMC Corporation along with sodium hydroxide activator and potable water. The effective injection area is essentially the same as the first phase (about 2,500 square feet) with the goal that knowing a significant amount of the carbonate (oxidant sink) should have been consumed by the activator; therefore, by properly dosing the mass, most of the contaminants should be available to mineralize. Prior to the start of activities, the Health and Safety Plan was reviewed by all and signatures were required to acknowledge adherence to the Plan. Unlike the first phase when potable water was available at a nearby hydrant, the second phase was occurring in the winter and air temperatures were quite cold. Obtaining potable water from the City of Ames bulk plant was the only feasible option. The bulk plant was several miles away and required continuous recirculation so hoses would not freeze. The same setup as previous in terms of the injection skid, chemically resistant fittings, seals, hoses, and diaphragm pump was used. This time, a total of about 80 gallons of oxidant solution per point were injected while total flow and injection pressure were measured or estimated during oxidant delivery. Flows continued to average around 10 gal/min at a pressure of 80 psi or less, respectively.

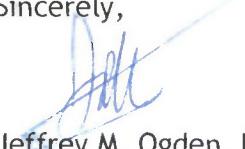
After approximately two (2) months since completion of the second phase, performance groundwater sampling was conducted. From December 2011 to June 2012, a consistent decrease, especially in tetrachloroethylene concentrations, was observed at monitoring well MW-R13. For example, in December 2011, tetrachloroethylene concentrations at monitoring well MW-R13 was 3.15 mg/L, but was reduced to 0.817 mg/L by June 2012. By the time of the annual sampling in October 2012; however, concentrations had increased by a factor of about 10 or less, specifically for 1,1-dichloroethane, tetrachloroethylene, and 1,1,1-trichloroethane. This occurrence was unexpected and does suggest an upgradient source. This conclusion is based upon an apparent loss of activity of the sulfate radical throughout the targeted treatment zone, into which contaminated groundwater has entered and re-contaminated. To investigate this possibility, Fehr

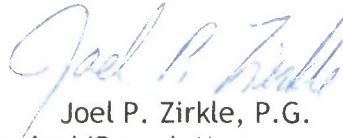
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Graham is proposing to complete a total of approximately 30 soil borings/one-inch temporary monitoring wells to a depth of about 20 feet using a Geoprobe and mobile lab. Borings/temporary wells are proposed to be spaced approximately 30 - 50 feet apart, except if a specific sample shows evidence of gross contamination, the spacing will be adjusted to maximize the source investigation (i.e. reduce to 25 feet or less). The proposed laboratory is NELAC certified and is able to run samples collected using Method 5035. No samples are proposed to be sent to a fixed laboratory considering the purpose of this exercise is only to assess and define the source area for future chemical oxidation deployment. The results of this exercise will be submitted upon completion for your review.

Your approval of this material is requested as we would like to initiate this work starting the week of April 8, 2013. Should you have any questions, comments, or require additional information, please do not hesitate to contact Joel Zirkle at (815) 394-4700 or me at (815) 235-7643.

Sincerely,


Jeffrey M. Ogden, P.G.
Senior Hydrogeologist


Joel P. Zirkle, P.G.
Principal/Branch Manager

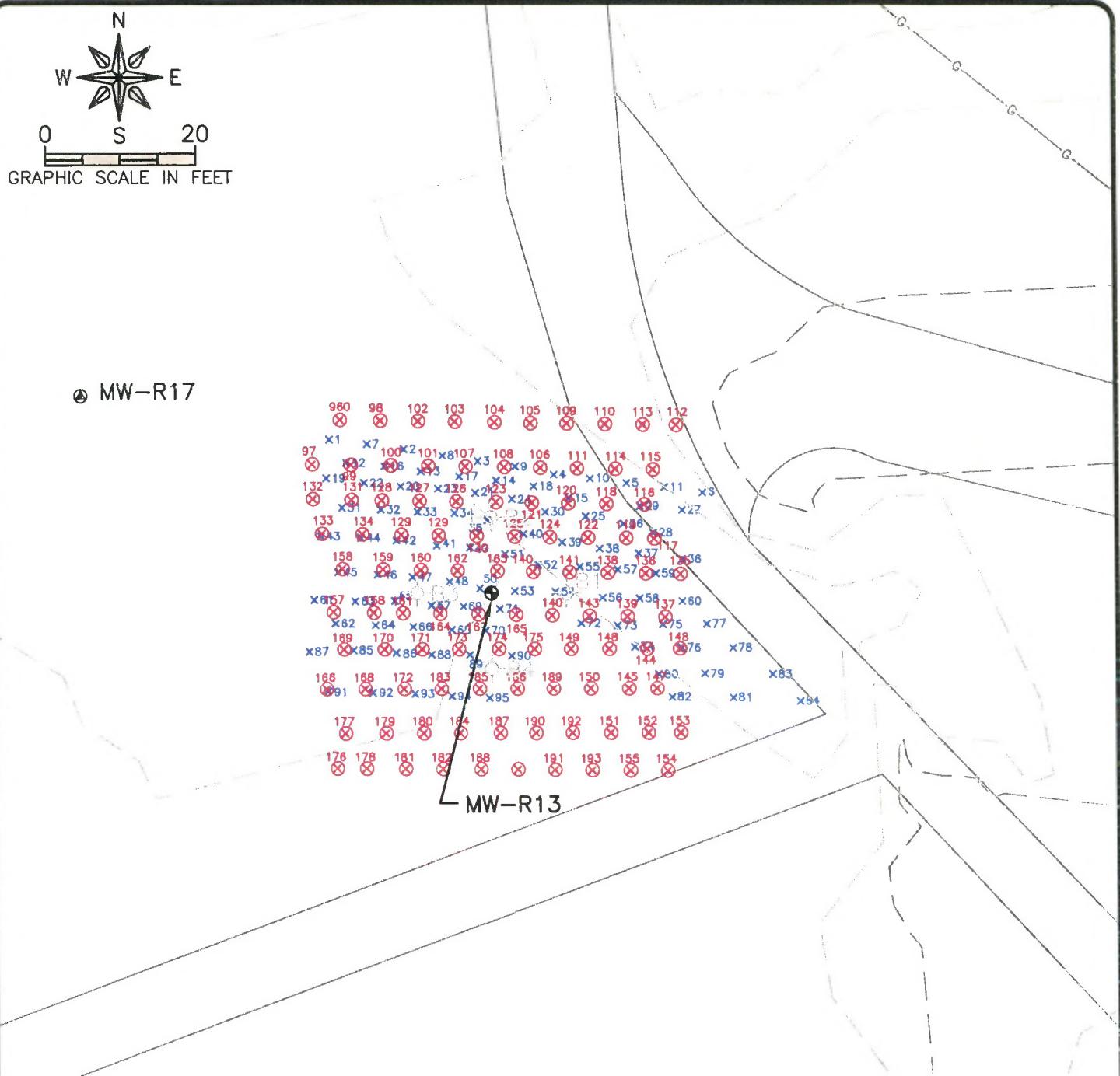
JMO:mll

Attachments:

Figure 1A - ISCO Injection Point Location Map
Figure 1B - ISCO Injection Point Location Map
Figure 2 - Proposed Soil Boring/Temporary MW Map
Groundwater Elevation Measurements table
Hydrograph
General Chemistry Measurement table
Volatile Organic Compound MCL Limits table

cc: Mr. Ken Foltz, Sauer-Danfoss Inc.
Mr. Gary Erickson, Sauer-Danfoss Inc.

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LEGEND

- (●) SHALLOW MONITORING WELL
 - (▲) DEEP MONITORING WELL
 - (◆) SOIL BORING
 - (×) ISCO PILOT TEST INJECTION POINT (JULY 2011)
 - (✖) ISCO PILOT TEST INJECTION POINT (JAN - FEB 2012)

FIGURE 1A
ISCO INJECTION POINT LOCATION MAP
LOCATION MAP DETAIL
SAUER-DANFOSS FACILITY
Y 2011)
- FEB 2012)
2800 E. 13th STREET
AMES, IOWA
03/06/13

03/06/13

ILLINOIS

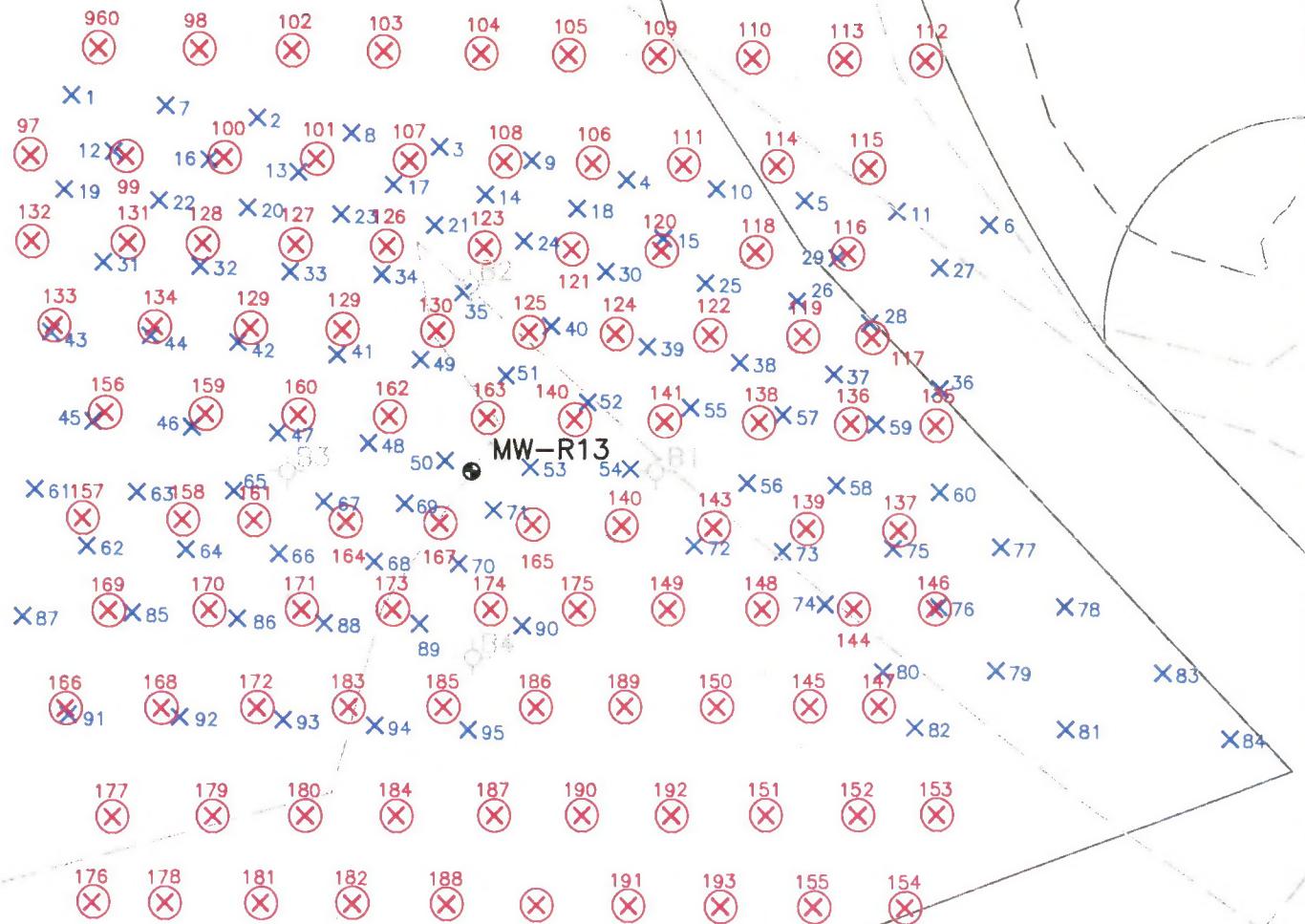
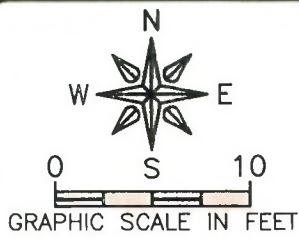
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LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- ◆ SOIL BORING
- ✖ ISCO PILOT TEST INJECTION POINT (JULY 2011)
- ✖ ISCO PILOT TEST INJECTION POINT (JAN - FEB 2012)

FIGURE 1B
ISCO INJECTION POINT LOCATION MAP
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

03/06/13

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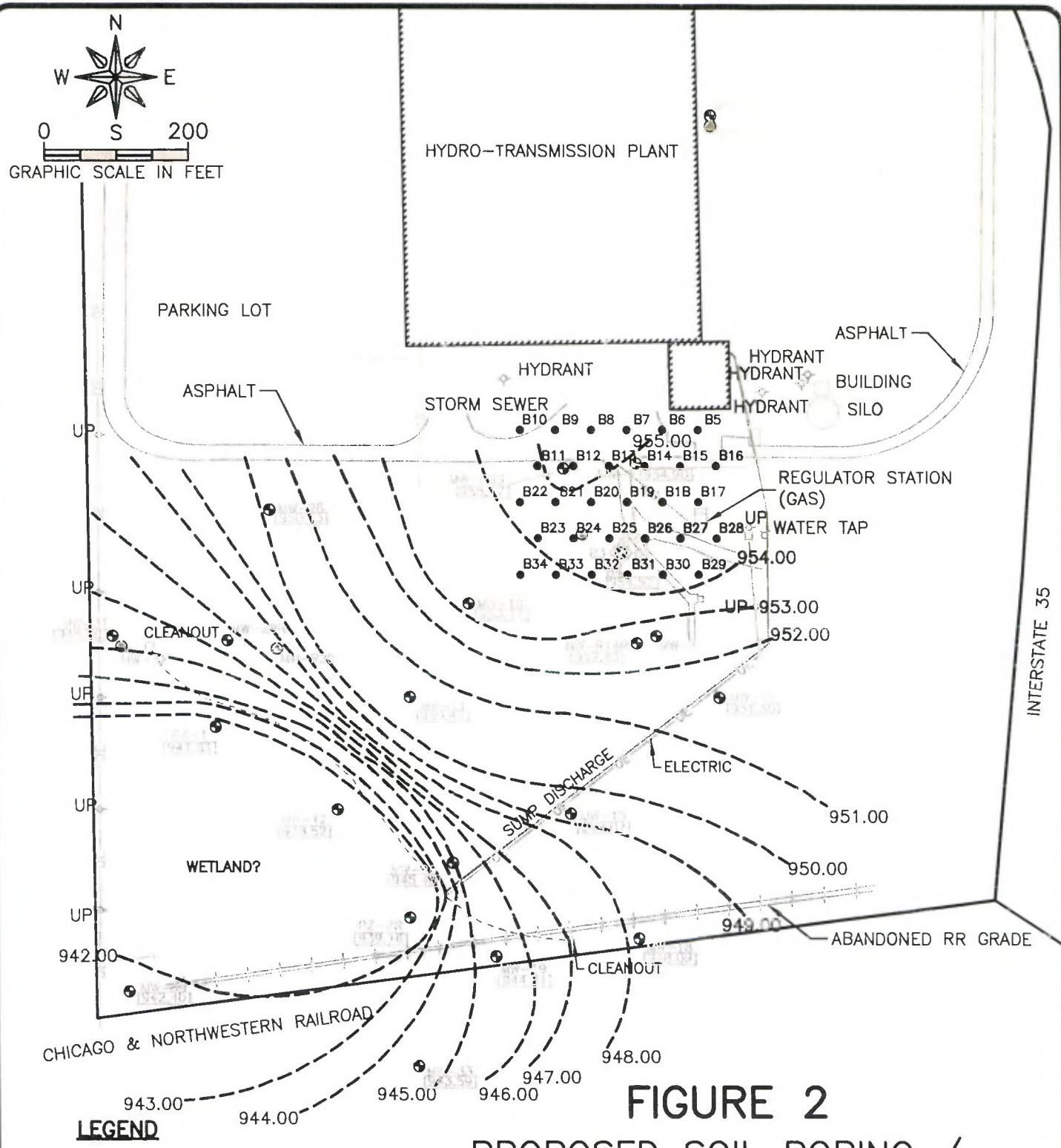


FIGURE 2

PROPOSED SOIL BORING /
TEMPORARY MONITORING WELL MAP
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

DATA COLLECTED: 10/18-19/11

03/06/13

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General Chemistry Measurements
 Sauer Danfoss
 2800 E 13th Street
 Ames, Iowa

Monitoring Well (MW) or Soil Boring (B)	Date Measured	Time Measured or Sampled	Temp (°C)	pH	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Chemical Oxygen Demand (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Alkalinity (total, CaCO ₃) (mg/L equivalent)	Nitrate (NO ₃ ⁻) (mg/L equivalent)	Nitrite (NO ₂ ⁻) (mg/L equivalent)	Sulfate (SO ₄ ²⁻) (mg/L equivalent)	Sulfite (SO ₃ ²⁻) (mg/L equivalent)	Total Organic Carbon (mg/L equivalent)
MW-5	07/17/11	19:57	20.77	6.96	1.224	0.92	-47	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	11/15/06	10:28	8.49	6.89	1.66	0.63	37	0.216	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	10/30/08	11:40	14.51	7.07	1.382	0.18	104	0.23	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	12/13/11	07:09	10.55	7.19	1.185	0.05	101.3	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	10/18/11	09:30	13.40	9.40	1.14	0.14	97.8	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	12/13/11	07:57	7.57	7.01	1.235	2.73	NM	0.53	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	10/20/12	08:11	7.18	7.01	1.206	10.14	10.14	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	10/20/12	08:11	5.99	7.07	NM	10.80	10.80	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	04/11/12	08:35	5.73	7.01	NM	11.37	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	06/12/12	13:45	5.46	7.03	1.287	2.51	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	10/16/12	14:32	15.87	7.02	1.238	0.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-11	10/30/08	13:21	9.21	6.83	1.163	0.52	97	3.01	NM	NM	NM	NM	NM	NM	NM	NM	
MW-11	10/20/10	15:40	7.00	1.127	0.38	33.6	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-12	10/09/07	09:49	16.79	7.16	0.61	0.02	203	0.59	NM	NM	NM	NM	NM	NM	NM	NM	
MW-12	10/20/10	11:47	15.77	7.26	1.317	0.70	NM	17.6	NM	NM	NM	NM	NM	NM	NM	NM	
MW-12	10/19/11	08:31	8.48	7.06	0.770	1.48	0.95	NM	2.01	NM	NM	NM	NM	NM	NM	NM	
MW-12	10/16/12	17:35	18.71	7.00	0.753	1.03	73	12.21	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	10/31/08	17:54	5.03	6.61	NM	2.06	216	2.87	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	10/20/10	12:39	7.80	1.129	0.45	196	1.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	07/21/11	05:33	11.41	7.45	2.54	0.57	242	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	09/28/11	07:55	10.88	6.50	1.251	0.98	130.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	10/18/11	14:32	12.75	8.05	0.753	1.48	26	12.36	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	12/12/11	16:30	10.95	6.80	5.430	3.78	61	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	01/15/12	15:45	11.45	6.96	7.045	1.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-R13	02/01/12	NM	7.73	7.01	NM	8.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	>70	
MW-R13	02/05/12	NM	6.91	10.20	NM	8.14	50.6	NM	NM	NM	NM	NM	NM	NM	NM	>70	
MW-R13	02/07/12	NM	12.09	NM	7.23	57	NM	NM	NM	NM	NM	NM	NM	NM	NM	>70	
MW-R13	02/09/12	NM	13.45	NM	1.23	1.23	NM	86.3	NM	NM	NM	NM	NM	NM	NM	>70	
MW-R13	04/11/12	11:20	15.41	11.84	25.30	38.58	NM	NM	NM	NM	NM	NM	NM	NM	NM	70	
MW-R13	06/12/12	15:35	17.14	6.76	10.70	40.6	NM	NM	NM	NM	NM	NM	NM	NM	NM	70	

General Chemistry Measurements
 Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa

Monitoring Well (MW) or Soil Boring (B)	Date Measured	Time Measured or Sampled	Temp (°C)	pH	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Chemical Oxygen Demand (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Alkalinity (total, CaCO ₃) (mg/L equivalent)	Nitrate (NO ₃ ⁻) (mg/L equivalent)	Nitrite (NO ₂ ⁻) (mg/L equivalent)	Sulfate (SO ₄ ²⁻) (mg/L equivalent)	Sulfite (SO ₃ ²⁻) (mg/L equivalent)	Total Organic Carbon (mg/L equivalent)
B-1 / 6'-7'	09/02/10	09:08	NM	7.60	NM	NM	NM	NM	NM	NM	NM	8.9	0.9	0.9	17	NM	2.411
B-2 / 6'-7'	09/02/10	09:58	NM	7.60	NM	NM	NM	NM	NM	NM	NM	NM	NM	15	6	NM	1.880
MW-R14	07/00	9.92	7.09	1.284	1.13	91.4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14	08/33	9.95	7.74	1.283	0.66	64.8	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14	09/48	8.74	0.950	0.411	51.2	NM	NM	NM	NM	NM	NM	NM	NM	40.1	NM	NM	0.0
MW-R14	10/13/11	1.66	8.19	1.166	8.19	22.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1.4
MW-R14R	08/02	9.53	6.80	1.354	5.96	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.0
MW-R14R	01/31/12	08:45	7.65	5.91	3.915	3.31	172	3.34	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14R	02/01/12	15:56	7.69	6.17	1.343	3.17	213.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14R	02/07/12	NM	NM	6.85	NM	NM	254.4	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14R	03/11/12	NM	NM	6.81	NM	NM	6.24	214.3	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14R	04/10	NM	NM	6.46	6.26	NM	NM	6.29	185.0	NM	NM	NM	NM	NM	NM	NM	NM
MW-R14R	14:40	8.54	7.63	1.306	1.25	100.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	>70
MW-R14R	10/16/12	15:22	6.05	8.16	0.85	0.85	46	100	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	11/15/06	16.44	11.12	6.75	1.065	3.42	120	2.67	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	10/09/07	16.07	15.78	7.00	1.081	0.31	102	1.13	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	10/29/08	11.19	6.84	6.92	1.056	0.64	35	1.94	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	10/20/10	14.06	13.42	7.45	1.193	1.20	NM	8.4	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	03/31/11	11.15	6.67	8.85	1.211	2.06	20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-18	10/17/12	11.52	13.89	7.31	1.186	0.85	8	2.77	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	10/10/07	11.16	11.16	6.75	0.985	0.27	216	40.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	10/29/08	14.37	6.95	0.853	0.17	67	17.10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	10/20/10	13.34	17.10	8.10	0.867	0.80	NM	316	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	03/31/11	13.31	8.64	8.34	0.789	3.04	15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	09/37	10.42	7.64	0.738	2.45	20	43.3	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-19	10/16/12	18.39	13.93	7.52	0.911	1.33	78	283	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-20	10/10/07	13.29	12.41	7.47	1.235	0.35	23	4.03	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-20	10/30/08	16.06	12.41	7.47	1.088	0.53	149	3.40	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-20	10/20/10	12.50	16.33	7.24	1.164	0.73	NM	47.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-20	10/19/11	10.08	11.36	7.53	0.812	0.31	24	25.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	11/14/06	14.48	11.30	7.12	0.798	0.16	-32	54.3	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	10/09/07	13.05	13.63	7.10	0.743	1.04	40	12.4	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	10/29/08	16.40	12.31	7.85	0.703	0.37	20	20.30	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	10/15/09	14.10	10.44	8.40	0.686	0.57	NM	11.50	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	10/17/11	12.11	10.58	7.24	0.69	0.96	NM	38.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	10/17/11	12.11	8.69	7.20	0.71	0.45	-18	36.9	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-R30	10/17/11	12.11	15.99	7.38	0.74	2.58	78	14.94	NM	NM	NM	NM	NM	NM	NM	NM	NM

General Chemistry Measurements
 Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa

Monitoring Well (MW) or Soil Boring (B)	Date Measured	Time Measured or Sampled	Temp (°C)	pH	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Chemical Oxygen Demand (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Alkalinity (total, CaCO ₃) (mg/L equivalent)	Nitrate (NO ₃ ⁻) (mg/L equivalent)	Sulfite (SO ₃ ²⁻) (mg/L equivalent)	Sulfate (SO ₄ ²⁻) (mg/L equivalent)	Sodium Persulfate (Na ₂ S ₂ O ₈) (mg/L)	Total Organic Carbon (mg/L equivalent)
MW-31	11/13/06	12:43	6.68	0.958	0.16	189	7.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-31	10/08/07	17:48	7.05	1.071	0.19	65	305	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-31	10/27/08	14:49	6.57	5.950	0.36	105	15.80	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-31	10/15/09	11:30	13.66	8.95	3.010	0.34	NM	249	NM	NM	NM	NM	NM	NM	NM	NM	
MW-31	10/20/10	10:07	13.92	7.16	2.330	0.69	NM	535	NM	NM	NM	NM	NM	NM	NM	NM	
MW-31	10/19/11	11:17	13.46	7.35	1.319	0.40	-8	43.6	NM	NM	NM	NM	NM	NM	NM	NM	
MW-31	10/17/12	11:15	14.77	6.99	1.800	0.72	-5	152	NM	NM	NM	NM	NM	NM	NM	NM	
MW-32	11/14/06	11:23	7.71	7.05	0.662	2.89	248	29.6	NM	NM	NM	NM	NM	NM	NM	NM	
MW-32	10/28/08	11:13	8.35	6.72	0.647	1.90	-35	10.10	NM	NM	NM	NM	NM	NM	NM	NM	
MW-32	10/20/10	09:46	12.33	7.43	0.680	0.60	NM	66.8	NM	NM	NM	NM	NM	NM	NM	NM	
MW-32	10/17/12	10:50	12.33	7.37	0.698	0.94	-13	38.8	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	11/13/06	15:16	12.56	7.16	1.120	1.57	248	21.9	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	10/08/07	16:03	21.33	7.14	1.043	0.80	200	222	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	10/28/08	15:16	13.54	7.37	0.971	2.56	104	53.10	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	10/15/09	14:35	13.42	8.82	0.759	0.51	NM	217	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	10/20/10	16:51	16.45	7.38	0.959	0.31	NM	104	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	03/31/11	09:02	6.62	8.65	1.108	3.05	53	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	07/17/11	16:47	17.82	6.70	0.580	1.36	-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	10/19/11	12:05	13.48	7.70	0.837	0.12	-21	18.46	NM	NM	NM	NM	NM	NM	NM	NM	
MW-33	10/17/12	10:07	15.01	7.19	1.004	0.49	78	337	NM	NM	NM	NM	NM	NM	NM	NM	
MW-34	10/20/10	11:10	16.51	7.13	1.670	0.77	NM	964	NM	NM	NM	NM	NM	NM	NM	NM	
MW-34	10/19/11	10:43	11.14	7.41	1.007	0.20	435	NM	NM	NM	NM	NM	NM	NM	NM	0.0	
MW-34	12/12/11	14:34	10.92	6.78	1.530	3.64	240	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-34	10/16/12	16:43	16.45	7.09	1.147	0.71	89.0	125	NM	NM	NM	NM	NM	NM	NM	NM	

Notes:

NM = Not Measured

Baseline conditions (prior to initial pilot test)
 Baseline conditions (prior to second pilot test)

Groundwater Elevation Measurements

Sauer Danfoss

Sauer Danfoss
2800 East 13th Street

Well ID	Date Installed	Groundwater Interval	Approximate Stratigraphic Unit Screened		Ground Water Elevation (ft ASL)	TOC (ft ASL)	Depth to Groundwater Water Elevation (ft ASL)														
			Groundwater Elevation (ft ASL)	Approximate Stratigraphic Unit Screened																	
MW-1	1994?	Unconfined	Glacial Till, Morgan Member?		971.2	973.71	6.31	967.40	7.02	966.69	6.63	967.08	7.41	966.30	6.45	967.26	6.59	967.12	6.35	967.36	6.61
MW-R25	1994?	Unconfined	Glacial Till, Morgan Member?		968.0	970.49	8.55	961.94	8.21	962.28	7.70	962.79	9.03	961.46	7.26	963.23	8.44	962.05	8.63	961.86	7.80
MW-3	1994?	Unconfined	Glacial Till, Morgan Member?		966.6	969.05	5.77	963.23	5.04	964.01	4.92	964.13	6.60	962.45	5.17	963.88	5.88	963.17	4.90	964.15	5.41
MW-4	1994?	Unconfined	Glacial Till, Morgan Member?		967.9	970.39	5.28	965.18	5.11	965.10	5.21	965.15	5.58	965.01	5.72	964.67	5.24	965.15	5.50	964.89	—
MW-5	1994?	Unconfined	Glacial Till, Morgan Member?		963.3	965.82	7.79	958.03	8.64	957.18	8.29	957.53	9.63	956.06	5.33	965.07	8.14	957.68	8.75	957.07	7.83
MW-R55	1994?	Unconfined	Glacial Till, Morgan Member?		962.9	965.39	7.93	957.46	8.92	956.47	8.42	956.97	9.78	955.61	8.78	956.61	8.54	956.85	9.11	956.28	8.45
MW-10	1994?	Unconfined	Glacial Till, Morgan Member?		961.64	964.22	9.12	955.10	9.86	954.36	9.84	954.38	10.37	953.85	9.99	954.23	9.29	954.93	9.75	954.47	9.76
MW-11	1994?	Unconfined	Glacial Till, Morgan Member?		960.72	963.26	5.20	958.06	11.84	954.42	12.14	951.12	12.37	950.89	12.62	951.64	11.50	951.52	12.05	951.21	10.53
MW-12	1994?	Unconfined	Glacial Till, Morgan Member?		957.20	959.70	10.74	948.65	21.47	938.23	17.46	942.24	20.18	939.42	20.88	938.82	20.14	937.56	18.79	940.91	19.59
MW-R13	1994?	Unconfined	Glacial Till, Morgan Member and Alden Member?		963.74	965.67	8.82	956.85	9.63	956.04	9.78	955.89	11.50	954.17	9.27	956.40	8.53	956.31	9.36	956.37	11.09
MW-R14	1994?	Unconfined	Glacial Till, Morgan Member?		965.3	965.83	10.97	954.86	12.79	953.04	12.45	953.38	12.52	953.31	13.76	952.07	11.14	954.43	11.40	953.07	12.48
MW-R14R	12/07/11	Unconfined	Glacial Till, Morgan Member?		?	?	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-R15	1994?	Unconfined	Glacial Till, Morgan Member?		965.09	975.99	6.01	951.98	8.90	949.09	8.72	949.27	9.77	948.22	10.70	947.29	7.23	950.76	7.37	950.82	7.93
MW-16	1994?	Unconfined	Glacial Till, Morgan Member?		963.4	965.90	10.92	954.98	10.92	952.41	13.49	952.41	15.73	950.17	11.39	954.51	11.74	954.16	11.51	954.39	12.87
MW-18	1994?	Unconfined	Glacial Till, Morgan Member?		953.86	965.73	6.39	950.84	8.07	948.66	7.95	948.78	8.45	948.28	14.30	942.43	8.12	948.51	7.91	948.82	7.13
MW-19	1994?	Unconfined	Glacial Till, Morgan Member?		951.66	954.31	6.64	947.67	9.68	944.63	8.88	945.43	9.76	944.55	11.16	943.15	9.27	945.04	9.00	945.31	8.77
MW-20	1994?	Unconfined	Glacial Till, Morgan Member?		954.28	956.66	6.30	950.36	10.78	945.88	10.18	946.48	11.76	944.90	13.83	942.83	10.58	946.08	9.52	947.14	10.24
MW-28	1994?	Unconfined	Glacial Till, Morgan Member?		954.7	957.17	4.63	952.54	4.80	952.37	4.71	952.46	4.96	952.21	4.54	952.63	4.69	952.48	4.87	952.30	4.66
MW-29	1994?	Unconfined	Glacial Till, Morgan Member?		955.1	955.57	4.88	950.69	5.70	949.87	5.62	949.95	6.18	949.39	5.34	950.23	5.67	949.90	5.74	949.83	5.46
MW-29R	12/07/11	Unconfined	Glacial Till, Morgan Member?		?	?	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-31	1994?	Unconfined	Glacial Till, Morgan Member?		951.26	953.60	5.79	947.81	6.63	946.97	6.61	946.99	6.59	947.01	6.17	947.43	6.23	947.37	6.36	947.24	6.63
MW-33	10/27/05	Unconfined	Glacial Till, Morgan Member?		949.47	951.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-34	09/02/10	Unconfined	Glacial Till, Morgan Member?		949.25	951.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
PZ-1	1994?	Unconfined	Glacial Till, Alden Member?		951.59	953.81	4.82	948.99	8.22	945.59	7.97	945.84	9.30	944.51	7.73	946.08	8.14	945.67	9.77	945.84	7.40
PZ-2	1994?	Confined	Glacial Till, Alden Member?		948.9	951.42	3.46	947.95	10.00	941.42	9.16	942.26	11.36	940.06	12.15	939.27	9.75	941.67	9.06	942.36	9.53
PZ-2R	12/07/11	Confined	Glacial Till, Alden Member?		?	?	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-R2D	1994?	Confined	Glacial Till, Alden Member?		967.9	970.41	9.88	960.53	8.57	961.84	8.68	961.73	9.38	961.03	8.86	961.55	8.94	961.47	8.91	961.50	8.52
MW-R17	1994?	Confined	Glacial Till, Alden Member?		963.3	965.77	21.52	944.25	22.98	942.79	22.20	943.57	21.98	943.79	23.60	942.17	22.59	943.08	22.47	943.30	—
MW-R30	1994?	Confined	Glacial Till, Alden Member?		956.51	958.21	8.06	950.15	11.16	947.05	10.48	947.73	10.86	947.35	10.69	947.52	10.50	947.71	10.18	948.03	10.41
MW-32	1994?	Confined	Glacial Till, Alden Member?		951.77	954.16	10.07	944.09	11.26	942.90	11.08	943.08	14.12	940.04	10.91	943.25	10.85	943.31	10.97	943.19	10.98

Ground surface elevations are estimated except where reported to nearest 0.01 ft per FGA field notes from 1/12/10 or surface shots using level

Groundwater Elevation Measurements Sauer Danfoss

Sauer Danloss
2800 East 13th Street

Ground surface elevations are estimated except where reported to nearest 0.1 m. Mean head losses from linear flow subroutines using levee

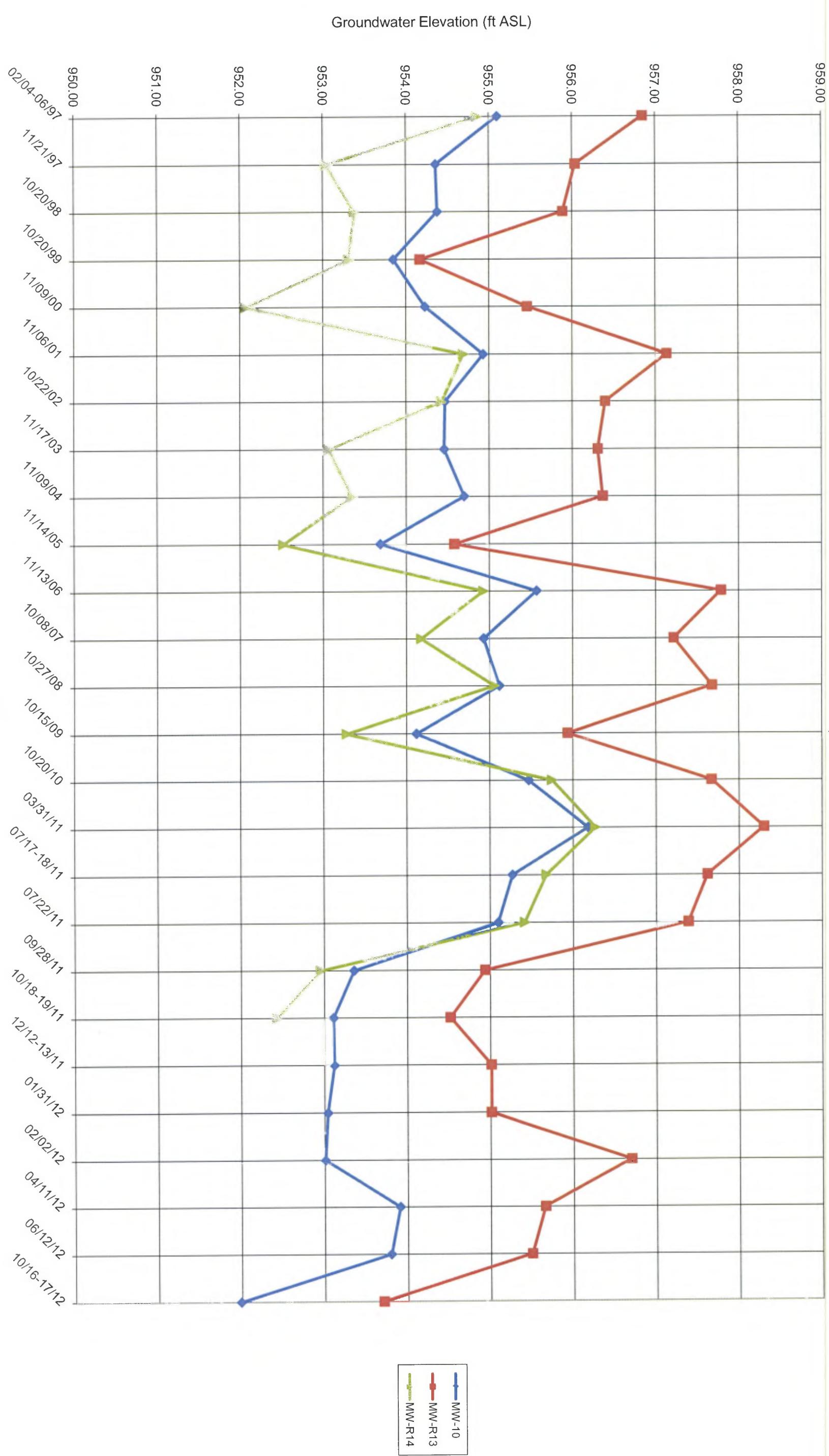
Groundwater Elevation Measurements
Sauer Danfoss
2800 East 13th Street
Ames, Iowa

Well ID	Date Installed	Groundwater Interval	Approximate Stratigraphic Unit Screened	Ground Level (ft ASL)	TOC (ft ASL)	Depth to Water (ft)	Groundwater Elevation Water (ft ASL)	Depth to Groundwater Water (ft)	Groundwater Elevation (ft ASL)	Depth to Groundwater Water (ft)	Groundwater Elevation (ft ASL)	Depth to Groundwater Water (ft)	Groundwater Elevation (ft ASL)	Depth to Groundwater Water (ft)	Groundwater Elevation (ft ASL)	
MW-1	1984?	Unconfined	Glacial Till, Morgan Member?	971.2	973.71	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—
MW-R2S	1984?	Unconfined	Glacial Till, Morgan Member?	968.0	970.49	—	—	—	—	—	—	—	—	—	—	—
MW-3	1984?	Unconfined	Glacial Till, Morgan Member?	965.6	969.05	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—
MW-4	1984?	Unconfined	Glacial Till, Alden Member?	967.9	970.39	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—
MW-5	1984?	Unconfined	Glacial Till, Morgan Member?	965.3	965.82	—	—	—	9.39	956.43	—	—	—	—	10.20	955.62
MW-R6S	1984?	Unconfined	Glacial Till, Morgan Member?	962.9	965.39	—	—	—	—	9.96	955.43	—	—	—	10.76	954.63
MW-10	1984?	Unconfined	Glacial Till, Morgan Member?	961.64	964.22	11.10	953.12	11.18	953.04	11.21	953.01	10.31	953.91	10.42	953.80	12.23
MW-11	1984?	Unconfined	Glacial Till, Morgan Member?	960.72	963.26	—	—	—	—	12.84	950.42	—	—	—	—	16.24
MW-R12	1984?	Unconfined	Glacial Till, Morgan Member?	957.70	959.70	—	—	—	—	19.04	940.66	—	—	—	—	20.63
MW-R13	1984?	Unconfined	Glacial Till, Morgan Member and Alden Member?	963.74	965.67	10.66	955.01	8.97	956.70	10.01	955.66	10.17	955.50	11.96	953.71	—
MW-R14	1984?	Unconfined	Glacial Till, Morgan Member?	963.3	965.83	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—
MW-R14R	12/07/11	Unconfined	Glacial Till, Morgan Member	?	?	9.13	not surveyed	9.25	not surveyed	9.26	not surveyed	8.06	not surveyed	8.01	not surveyed	9.58
MW-15	1984?	Unconfined	Glacial Till, Morgan Member?	955.09	957.99	—	—	—	—	9.11	948.98	—	—	—	—	10.59
MW-16	1984?	Unconfined	Glacial Till, Morgan Member?	963.4	965.90	—	—	—	—	14.51	948.39	—	—	—	—	14.92
MW-18	1984?	Unconfined	Glacial Till, Morgan Member?	953.86	956.73	—	—	—	—	7.82	948.91	—	—	—	—	9.57
MW-19	1984?	Unconfined	Glacial Till, Morgan Member?	951.66	954.31	—	—	—	—	8.55	945.76	—	—	—	—	13.65
MW-20	1984?	Unconfined	Glacial Till, Morgan Member?	954.28	956.66	—	—	—	—	10.34	945.72	—	—	—	—	15.87
MW-28	1984?	Unconfined	Glacial Till, Morgan Member?	954.7	957.17	—	—	—	—	5.08	952.09	—	—	—	—	6.69
MW-29	1984?	Unconfined	Glacial Till, Morgan Member?	953.1	955.57	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—
MW-29R	12/07/11	Unconfined	Glacial Till, Morgan Member	?	?	—	—	—	—	3.23	not surveyed	—	not surveyed	—	not surveyed	5.82
MW-31	1984?	Unconfined	Glacial Till, Morgan Member?	951.26	953.60	—	—	—	—	6.71	946.89	—	—	—	—	8.50
MW-33	10/27/05	Unconfined	Glacial Till, Morgan Member?	949	951.47	951.70	—	—	—	—	—	—	—	—	—	945.10
MW-34	09/02/10	Unconfined	Glacial Till, Morgan Member	949	951.25	951.80	—	—	—	8.50	943.30	—	—	—	—	9.45
PZ-1	1984?	Unconfined	Glacial Till, Alden Member?	951.59	953.81	—	—	—	—	8.80	945.01	—	—	—	—	13.66
PZ-2	1984?	Confined	Glacial Till, Alden Member?	948.9	951.42	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—	abandoned	—
PZ-2R	12/07/11	Confined	Glacial Till, Alden Member?	?	?	—	—	—	—	8.83	not surveyed	—	not surveyed	—	not surveyed	10.13
MW-R2D	1984?	Confined	Glacial Till, Alden Member?	967.9	970.41	—	—	—	—	—	—	—	—	—	—	—
MW-R17	1984?	Confined	Glacial Till, Alden Member?	965.3	965.77	—	—	—	—	—	—	—	—	—	—	—
MW-R30	1984?	Confined	Glacial Till, Alden Member?	956.51	958.21	—	—	—	—	—	—	—	—	—	—	14.63
MW-32	1984?	Confined	Glacial Till, Alden Member?	951.77	954.16	—	—	—	—	—	—	—	—	—	—	15.02

Notes:

Ground surface elevations are estimated except where reported to nearest 0.01 ft per FGSA field notes from 10/20/10 or surface shots using level

Hydrograph
Sauer Danfoss
2800 East 13th Street
Ames, Iowa



Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

RECEIVED
MAR 26 2013
AWMID/WRAP-KNRP

MCL ($\mu\text{g/L}$)	MW-5		MW-R6S		MW-10		MW-10		MW-10		MW-10	
	Date Sampled:	Result ($\mu\text{g/l}$)										
Acetone	5.500	<	8.10	<	10.0	<	10.0	<	25	<	20	<
1,1-Dichloroethane (Ethylene Dichloride)												
1,1-Dichloroethene	5	1.83	7	2.13	1.83	9.6	50	16.4	11.3	10.5	10.5	14.7
cis-1,2-Dichloroethene	70	2.00	70	2.00	54	35.7	28.5	22	20	20	20	20
trans-1,2-Dichloroethene	100	1.00	100	1.00	10	1.6	1.0	1.0	1.0	1.0	1.0	1.0
1,4-Dioxane	6.1	6.0	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Methylene Chloride (Dichloromethane)	5	5.00	5	5.00	10	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Tetrachloroethene (Perchloroethene)	5	209	5	209	766	1,800	456	424	424	497	625	625
1,1,1-Trichloroethane	200	1.81	200	1.96	410	1,18	162	120	120	174	223	223
1,1,2-Trichloroethane	5	1.00	5	1.00	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Trichloroethene	5	1.33	16.6	28	40.4	54.5	53.2	59.8	42.9	42.9	42.9	42.9
Vinyl Chloride	2	1.00	3.00	1.00	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Xylenes (total)		10.000		99.0		3.00	5.0	3.0	3.0	3.0	3.0	3.0

Bold Font Indicates Detected Parameter

—^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte. The ICS for this analyte met CCV acceptance criteria, and was used to validate the batch.

J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

RI for parameter is greater than MCL.

Detected parameter exceeds MCL.

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-10		Dup		MW-10												
	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	
Acetone	5,500	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10.0	CIN,<	50.0
1,1-Dichloroethane (Ethylene Dichloride)	810	7	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	16.9		
1,1-Dichloroethene	5	25.3	23.9	35.6	35.7	43.3	45.2	48.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	5.00		
cis-1,2-Dichloroethene	70	53.3	49.7	32.6	35.1	25.2	18.4	22.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0			
trans-1,2-Dichloroethene	100	1.07	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
1,4-Dioxane	6.1	11	14	15	21	22	19	14	14	14	14	14	14	14	14	14			
Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.00		
Tetrachloroethene (Perchloroethene)	5	385	372	405	421	504	424	407	580	580	580	580	580	580	580	580			
1,1,1-Trichloroethane	200	90.1	89.7	188	194	194	194	194	294	294	294	294	294	294	294	294			
1,1,2-Trichloroethane	5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00			
Trichloroethene	2	32.3	30.9	31.5	30.7	19.0	23.0	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4			
Vinyl Chloride		<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	5.00		
Xylenes (total)		10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	15.0		

Bold Font Indicates Detected Parameter

a Parameter not analyzed
 < or U Not detected at Reporting Limit
 CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
 C9 Calibration verification recovery was outside the method control limits for this analyte.
 J The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch. Result is less than the RL but greater than or equal to the MDL, and its concentration is an approximate value.
 L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
 M1 The MS and/or MSD were outside control limits.
 R Sample duplicate RPD exceeded the laboratory control limit.
 RL for parameter is greater than MCL
 Detected parameter exceeds MCL

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-10		MW-10		MW-10		MW-11		MW-11		MW-11		
	Date Sampled:	12/13/2011	Date Sampled:	04/11/2012	Date Sampled:	06/12/2012	Date Sampled:	10/16/2012	Date Sampled:	Sep-Oct 1994 ^c	Date Sampled:	11/21/1997	Date Sampled:	10/20/1999	Date Sampled:
	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	
Acetone		5,500	L1,<	50.0	<	50.0	<	100	<	50.0	<	25	<	20	
1,1-Dichloroethane (Ethylene Dichloride)		5	L1,<	11.4	<	21.2	<	56.3	<	12.3	<	44	<	14.4	
1,2-Dichloroethane		7		5.00		5.00		10.0		5.00		10		1.0	
cis-1,2-Dichloroethene		70		17.0		27.6		15.8		29.2		67.6		18	
trans-1,2-Dichloroethene		100		5.00		5.00		10.0		5.00		7.1		1.7	
1,4-Dioxane		6.1		12		15		1.1		9.6		... ^a		... ^a	
Methylene Chloride (Dichloromethane)		5		25.0		25.0		50.0		10.0		10		5.0	
tetrachloroethene (Perchloroethene)		5		465		M1		542		313		352		25.3	
1,1,1-Trichloroethane		200		246		M1		313		CIN,R		174		227	
1,1,2-Trichloroethane		5		5.00		5.00		10.0		8		1.3		88.1	
Trichloroethene		5		20.0		23.4		16.1		27.4		91		1.0	
Vinyl Chloride		2		5.00		10.0		5.00		5.00		44.8		46.8	
Xylenes (Total)				10,000		CIN,<		15.0		30.0		... ^b		... ^a	
												3.0		3.0	

Bold Font Indicates Detected Parameter

^a Parameter not analyzed
 < or U No detected at Reporting Limit
 CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/BZT/OC.
 C9 Calibration Verification recovery was outside the method control limits for this analyte.
 J The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch. Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
 M1 The MA and/or MSU were outside control limits.
 R Sample duplicate RPD exceeded the laboratory control limit
 RL for parameter is greater than MCL
 Detected parameter exceeds MCL

Sauer Dantoss
 2800 East 13th Street
 Ames, Iowa
 Groundwater Sample Results
 Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-11		MW-11		MW-11		MW-11		MW-11		MW-11		MW-11		MW-11			
	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier		
Acetone	5,500	<		810	<		20	<		20	<		10	<		50	<		10.0	
1,1-Dichloroethane	5	<		15.1	<		16.5	<		12.8	<		14.8	<		15.5	<		6.67	
Ethylene Dichloride	7	<		1.0	<		1.0	<		1.0	<		1.0	<		5.0	<		1.00	
1,1-Dichloroethene	70	233	Y	15.6	15.4	Y	23.3	176	Y	15.4	23.3	Y	26.3	79.6	Y	35.2	37.5	Y	31.2	
cis-1,2-Dichloroethene	100	<		1.8	<		1.4	<		1.92	<		1.78	<		1.73	<		1.00	
trans-1,2-Dichloroethene	6.1	<		10.4	12	Y	10.4	12	Y	12	<		12	<		12	<		5.8	
1,4-Dioxane	5	<		5.0	<		5.0	<		5.0	<		5.0	<		5.0	<		5.00	
Methylene Chloride (Dichloromethane)	5	<		585	585	Y	585	420	Y	422	355	Y	391	CIN	469	90.6	131	Y	106	
Tetrachloroethene (Perchloroethene)	200	<		87.8	87.8	Y	87.8	134	Y	134	165	Y	172	172	Y	172	172	Y	100	
1,1,1-Trichloroethane	5	<		1.0	1.0	Y	1.00													
1,1,2-Trichloroethane	5	<		43.6	43.6	Y	43.6	32.6	Y	32.6	35	Y	35	18.4	21.5	Y	21.5	21.5	Y	19.8
Vinyl Chloride	2	<		1.0	1.0	Y	1.00													
Xylenes (total)	10,000	<		3.0	<		3.0	<		3.0	<		3.0	<		3.0	<		6.00	

Bold Font Indicates Detected Parameter

—^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J Result is less than the RL but greater than or equal to the MDL,

and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

	MCL ($\mu\text{g/L}$)		MW-11		MW-12		MW-12		MW-12		MW-12		MW-12		MW-12			
	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	
Volatile Organic Compounds																		
Acetone	5,500	<	<	10/17/2012	10.0	<	10/21/1997	10	<	10/20/1998	20	<	10/20/1999	20	<	11/09/2000	20	<
1,1-Dichloroethane (Ethylene Dichloride)	810	<	13.3		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<
1,1-Dichloroethene	5	<	1.00		5	<		1.0	<		1.0	<		1.0	<		1.0	<
cis-1,2-Dichloroethene	7	<	33.3		70	<		28.5	<		1.0	<		1.0	<		1.0	<
trans-1,2-Dichloroethene	100	<	1.00		100	<		1.0	<		1.0	<		1.0	<		1.0	<
1,4-Dioxane	6.1	<	9.8		6.1	<		6.1	<		6.1	<		6.1	<		6.1	<
Methylene Chloride (Dichloromethane)	5	<	5.00		5	<		5.00	<		10	<		10	<		10	<
Tetrachloroethene (Perchloroethylene)	5	<	47.7		5	<		47.7	<		1.0	<		1.0	<		1.0	<
1,1,1-Trichloroethane	200	<	244		200	<		244	<		1.0	<		1.0	<		1.0	<
1,1,2-Trichloroethane	5	<	1.00		5	<		1.00	<		1.0	<		1.0	<		1.0	<
Trichloroethene	5	<	24.7		5	<		24.7	<		1.0	<		1.0	<		1.0	<
Vinyl Chloride	2	<	1.00		2	<		1.00	<		3.0	<		3.0	<		3.0	<
Xylenes (total)			10,000					3,000	<		3,000	<		3,000	<		3,000	<

Bold Font Indicates Detected Parameter

...^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the <15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch. Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-12													
	Date Sampled:	11/09/2004	Date Sampled:	11/16/2005	Date Sampled:	11/15/2006	Date Sampled:	10/09/2007	Date Sampled:	10/27/2008	Date Sampled:	10/27/2008	Date Sampled:	10/27/2008	Date Sampled:	10/27/2010
	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)
Acetone	<	5,500	<	20.0	<	20.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0
1,1-Dichloroethane	<	810	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1-Dichloroethene	<	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
cis-1,2-Dichloroethene	<	7	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
trans-1,2-Dichloroethene	<	70	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,4-Dioxane	<	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Methylene Chloride (Dichloromethane)	<	6.1	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
Tetrachloroethene (Perchloroethene)	<	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
1,1,1-Trichloroethane	<	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1,2-Trichloroethane	<	200	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Trichloroethene	<	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Vinyl Chloride	<	2	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Xylenes (total)	<	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

---^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J The LCS for this analyte met CCV acceptance criteria and was used to validate the batch.

R Result is less than the RL but greater than or equal to the MDL.

L1 and the concentration is an approximate value.

L2 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

	MCL ($\mu\text{g/L}$)	MW-12		MW-12		MW-R13		MW-R13		MW-R13		MW-R13	
		Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier
Volatile Organic Compounds													
Acetone	5,500	C/N<	10.0	<	10.0	C/N<	25	<	400	<	20	<	20.0
1,1-Dichloroethane (Ethylene Dichloride)	810	^	1.00	<	560	^	1,380	2,530	2,020	^	3,680	^	1,940
1,1-Dichloroethene	5	^	1.00	^	1.00	^	5.8	20	20	^	6.5	10.3	5.84
cis-1,2-Dichloroethene	7	^	2.00	^	2.00	^	1,120	1,510	1,430	^	1,430	2,610	1,01
trans-1,2-Dichloroethene	70	^	1.00	^	1.00	^	81.2	57.5	78.8	^	71.2	124	2.4
1,4-Dioxane	100	^	1.00	^	1.00	^	5.0	20	1.6	^	1.0	^	^
Methylene Chloride (Dichloromethane)	6.1	^	6.0	^	1.0	^	^	^	^	^	^	^	^
Tetrachloroethene (Perchloroethene)	5	^	5.00	^	5.00	^	9.1	200	35	^	24.3	24.9	4.830
1,1,1-Trichloroethane	200	^	1.00	^	1.00	^	4.61	1,100	1,200	^	3,040	3,170	4,790
1,1,2-Trichloroethane	5	^	1.00	^	1.00	^	97.0	3,140	3,370	^	3,220	2,140	188
Trichloroethylene	5	^	1.00	^	1.00	^	195	72	20	^	24.3	27.4	50.6
Vinyl Chloride	2	^	1.00	^	1.00	^	^	^	^	^	40.6	^	1.0
Xylenes (total)	10,000	^	3.00	^	5.0	^	^	^	^	^	3.0	^	3.0

Bold Font Indicates Detected Parameter*

.....^a Parameter not analyzed

< or U Not detected at Reporting Limit

C/N The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J Result is less than the RL but greater than or equal to the MDL.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

Detected Parameter exceeds MCL

Sauer-Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13			
	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	
Volatile Organic Compounds																		
Acetone	5,500	<		11/14/2006	2,31		10/30/2008	1,000	<	10/30/2008	1,000	<	10/30/2008	1,000	<	10/20/2010	10.0	<
1,1-Dichloroethane (Ethylene Dichloride)	810				2,480			2,740									2,010	500
1,1-Dichloroethene	5	<			8.0			100	<		100	<		100	<		10.0	50.0
cis-1,2-Dichloroethene	70				4,650			5,890			5,890			3,460	C9		5,110	158
trans-1,2-Dichloroethene	100	<			53			100			100			100			40.5	50.0
1,4-Dioxane	6.1				7.50			100	<		100	<		100			2.37	<
Methylene Chloride (Dichloromethane)	5				74.6			50.0			50.0			78			92	65
Perchloroethylene (Perchloroethene)	5				8,080			8,080			8,020			8,020			30.5	50.0
1,1,1-Trichloroethane	200				7,970			8,060			6,660			6,660			10.300	5,870
1,1,2-Trichloroethane	5				337			346			310			221			6,240	3,990
Trichloroethene					40.5			100	<		100			325			45.8	50.0
Vinyl Chloride					2			106			100			100			66.4	<
Xylenes (total)					10,000			8.50	<		100			100			50.0	
					300			300	<		300			300			6.00	
																	150	

Bold Font Indicates Detected Parameter

..... Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B&270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J The LCS for this analyte met CCV acceptance criteria and was used to validate the batch.

J Result is less than the RL but greater than or equal to the MDL.

L1 and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

Detected parameter exceeds MCL

Sauer-Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

	MCL ($\mu\text{g/L}$)	MW-R13		MW-R13		MW-R13		MW-R13		MW-R14		MW-R14							
		Date Sampled:	10/18/2011	Date Sampled:	12/12/2011	Date Sampled:	04/11/2012	Date Sampled:	06/12/2012	Date Sampled:	10/16/2012	Date Sampled:	09/28/2011	Date Sampled:	10/18/2011	Date Sampled:	12/13/2011		
		Qualifier	Result ($\mu\text{g/L}$)																
Aromatic Compounds																			
Acetone	5,500	CIN,<	500	L1,<	1,000	<	500	CIN	251	<	250	CIN	168	<	4,96	CIN,<	10.0	L1,<	10.0
1,1-Dichloroethane (Ethylene Dichloride)	810		5	<	50.0	<	100		322		250		100		1,560		5,29		
1,1-Dichloroethene			7		328		250		100		50.0		50.0		100		1,16		
cis-1,2-Dichloroethene			70		50.0		100		50.0		25.0		25.0		100		1,01		
trans-1,2-Dichloroethene			100		50.0		100		50.0		25.0		25.0		100		1,00		
1,4-Dioxane			6.1		120		60	J	16		20	J	39		6.0		6.0		
Methylene Chloride (Dichloromethane)			5		250		500		125		50.0		50.0		500		125		
Tetrachloroethene (Perchloroethene)			5		5,990		3,150		2,010		3,270		3,49		5,00		3,67		
1,1,1-Trichloroethane			200		4,000		1,050		1,130		922		43.1		86.8		30.0		
1,1,2-Trichloroethane			5		144		100		50.0		25.0		100		1,00		1,00		
Trichloroethene			5		100		50.0		25.0		25.0		100		1,24		1,00		
Vinyl Chloride			2		50.0		100		25.0		100		100		3,00		1,00		
Xylenes (total)			10,000		150		300		150		75.0		75.0		3,00		1,00		

Bold Font Indicates Detected Parameter

^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B&270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J Result is less than the RL but greater than or equal to the MDL.

L1 and the concentration is an approximate value

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)			Dup			MW-R14R			Dup			MW-R14R			Dup			MW-15			MW-16					
	Date Sampled:	Duplicate	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Duplicate	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Duplicate	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Duplicate	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Duplicate	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Duplicate	Result ($\mu\text{g/L}$)	Qualifier			
Acetone		5.500		L1<		10.0	<			7.40		<		10.0	<			10.0		<		10.0		<		20	
1,1-Dichloroethane		8.10				4.97				7.04		C/N		50.8				3.27									1.0
1,2-Dichloroethane (Ethylene Dichloride)		5		<		1.00				1.00				1.00				1.00								1.0	
1,1-Dichloroethene		7		9.91		14.8				15.5				12.8				13.4								2.0	
cis-1,2-Dichloroethene		70		<		1.00				1.00				1.00				1.00								1.0	
trans-1,2-Dichloroethene		100		<		1.00				1.00				1.00				1.00								1.0	
1,4-Dioxane		6.1		<		6.0		J		1.2				1.1				1.2								2.0	
Methylene Chloride (Dichloromethane)		5		<		5.00				5.00				5.00				5.00								5.0	
1,1,1-Trichloroethene (Perchloroethylene)		5				3.83				4.41				4.15				3.72								1.0	
1,1,2-Trichloroethane		200				30.5				40.9				42.2				43.3								1.0	
Trichloroethene		5		<		1.00				1.00				1.00				1.00								1.0	
Vinyl Chloride		2		C/N<		1.00				1.00				1.00				1.00								1.0	
Xylenes (total)		10,000		<		3.00				3.00				3.00				3.00								3.0	

Bold Font Indicates Detected Parameter

Parameter not analyzed

< or U Not detected at Reporting Limit

C/N The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA method 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J Result is less than the RL but greater than or equal to the MDL.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside the laboratory control limit.

R Sample duplicate RPD exceeded the MCL.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-18													
	Date Sampled:	Sep-Oct 1994 ^c	Date Sampled:	11/21/1997	Date Sampled:	10/20/1998	Date Sampled:	10/20/1999	Date Sampled:	11/09/2000	Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/18/2003
	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)
Acetone		5,500	<	25	<	10	<	20	<	20	<	10	<	20	<	20
1,1-Dichloroethane		810	<	50	<	10	<	10	<	10	<	10	<	10	<	10
1,1-Dichloroethylene (Ethylene Dichloride)		5	<	50	<	10	<	10	<	10	<	10	<	10	<	10
cis-1,2-Dichloroethylene		70	<	50	<	10	<	20	<	20	<	20	<	20	<	20
trans-1,2-Dichloroethylene		100	<	50	<	10	<	10	<	10	<	10	<	10	<	10
1,4-Dioxane		6.1	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
Methylene Chloride (Dichloromethane)		5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
Tetrachloroethylene (Perchloroethylene)		5	<	5.0	<	10	<	10	<	10	<	10	<	10	<	10
1,1,1-Trichloroethane		200	<	50	<	10	<	10	<	10	<	10	<	10	<	10
1,1,2-Trichloroethane		5	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Trichloroethylene		5	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Vinyl Chloride		2	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0
Xylenes (total)		10,000	<	7.7	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

—^a Parameter not analyzed
< or U No detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 The LCS for this analyte met CCV acceptance criteria and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.
RL for parameter is greater than MCL
Detected parameter exceeds MCL

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)			MW-18														
	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier
Volatile Organic Compounds																		
Acetone	5.500	<		20.0	<		20.0	<		10.0	<		10.0	<		10.0	<	
1,1-Dichloroethane (Ethylene Dichloride)	810	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
1,1-Dichloroethene	5	^		1.0	^		1.0	^		2.0	^		2.0	^		2.00	^	
cis-1,2-Dichloroethene	70	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
trans-1,2-Dichloroethene	100	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
1,4-Dioxane	6.1	^		2.0	^		6	^		2.0	^		2.0	^		2.00	^	
Methylene Chloride (Dichloromethane)	5	^		5.0	^		5.0	^		5.0	^		5.0	^		5.00	^	
Tetrachloroethene (Perchloroethene)	5	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
1,1,1-Trichloroethane	200	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
1,1,2-Trichloroethane	5	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
Trichloroethene	5	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
Vinyl Chloride	2	^		1.0	^		1.0	^		1.0	^		1.0	^		1.00	^	
Xylenes (total)	10,000	<		3.0	<		3.0	<		3.0	<		3.0	<		3.00	<	

Bold Font Indicates Detected Parameter

^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.

J Result is less than the RI, but greater than or equal to the MDL,

and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

RL for parameter is greater than MCL

Detected Parameter Exceeds MCL

Sauer-Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-18		D-01		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19	
	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier
Acetone	5.500	<	<	10/17/2012	10.0	<	10/17/2012	25	<	Sep-Oct 1994 ^c	20	<	1/12/1/1997	20	<	10/20/1998	20	<
1,1-Dichloroethane (Ethylene Dichloride)	810	<	<		1.00	<		130	<		5.0	<		80.2	<		57.2	<
1,1-Dichloroethene	5	7	&		1.00	&		1.00	&		1.0	&		1.0	&		1.0	&
cis-1,2-Dichloroethene	70		&		2.00			1.00			1.0			2.03			24.5	
trans-1,2-Dichloroethene	100		&		1.00			1.00			1.0			4.1			88.3	
1,4-Dioxane	6.1		&		1.0			1.0			1.0			3.5			2.2	
Methylene Chloride (Dichloromethane)	5		&		5.00			5.0			5.0			10			10	
Tetrachloroethene (Perchloroethene)	5		&		1.00			1.00			1.0			1.0			1.0	
1,1,1-Trichloroethane	200		&		1.00			1.00			1.0			18			106	
1,1,2-Trichloroethane	5		&		1.00			1.00			1.0			5.3			17.9	
Trichloroethene	2		&		1.00			1.00			1.0			52.5			55.2	
Vinyl Chloride					3.00			3.00			3.00			49.4			73.4	
Xylenes (total)					10.00			10.00			10.00			10.00			10.00	

Bold Font Indicates Detected Parameter

^a Parameter not analyzed
< or U Not detected at Reporting Limit
CN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration/Verification recovery was outside the method control limits for this analyte.
J The LCS for this analyte met CCV acceptance criteria and was used to validate the batch.
Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.
RL for parameter is greater than MCL
Detected parameter exceeds MCL

Sauer-Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19		
	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	Date Sampled:	Result ($\mu\text{g/l}$)	
Acetone	5,500	<	20	<	20	<	20	<	20.0	<	20.0	<	20.0	<	20.0	<	20.0	<	10.0
1,1-Dichloroethane (Ethylene Dichloride)	810	<	9.6	<	5.1	<	11.7	<	2.8	<	2.7	<	2.15	<	2.33	<	5.97	<	1.0
1,1-Dichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
cis-1,2-Dichloroethene	7	7	7.9	7.9	5	21.9	5.77	5.41	3.45	3.69	9.85	3.19	3.24	7.41	1.0	1.0	1.0	1.0	1.0
trans-1,2-Dichloroethene	70	<	13.2	<	8.9	<	19.7	<	4.72	<	4.77	<	1.0	<	1.0	<	1.0	<	1.0
1,4-Dioxane	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Methylene Chloride (Dichloromethane)	6.1	<	... ^a	<	14.6	<	9.4	<	9.8	<	14.2	<	6	<	17	<	17	<	1.0
Tetrachloroethene (Perchloroethene)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	1.0
1,1,1-Trichloroethane	200	<	45.4	<	38.9	<	101	<	26.3	<	11.2	<	1.0	<	1.0	<	1.0	<	1.0
1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Trichloroethene	2	<	14.8	<	11.2	<	24.3	<	9.23	<	9.75	<	4.76	<	8.75	<	8.75	<	1.0
Vinyl Chloride																			
Xylenes (total)		10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<

Bold Font Indicates Detected Parameter

^a Parameter not analyzed
 < or U Not detected at Reporting Limit¹
 CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
 C9 Calibration/Verification recovery was outside the method control limits for this analyte.
 J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
 L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
 M1 The MS and/or MSD were outside control limits.
 R Sample duplicate RPD exceeded the laboratory control limit.
 RL for parameter is greater than MCL
 Detected parameter exceeds MCL

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)	MW-19		MW-19		MW-19		D-01		MW-19	
		Date Sampled:	Result ($\mu\text{g/l}$)								
Acetone	5.500	<		1.0	<	1.0	<	10.0	<	10.0	<
1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	1.56	<	25.0	1.0
1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.0	<	1.0	<	1.0	1.00	<	1.0	1.0
1,1-Dichloroethylene	7	6.31	6.49	6.49	6.49	6.49	6.49	3.41	<	13.0	4.4
Or-1,2-Dichloroethylene	70	1.93	1.75	1.75	1.75	1.75	1.75	1.0	<	1.0	1.0
trans-1,2-Dichloroethylene	100	<	1.0	<	1.0	<	1.0	2.0	3.5	2.0	2.0
1,4-Dioxane	6.1	5.0	5.1	5.0	5.0	5.0	5.0	5.00	<	5.00	5.0
Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	4.0	<	4.0	4.3
Tetrachloroethene (Perchloroethylene)	200	2.66	2.46	2.46	2.46	2.46	2.46	7.66	6.83	6.71	6.64
1,1,1-Trichloroethane	5	<	1.0	<	1.0	<	1.0	1.0	<	1.0	1.0
1,1,2-Trichloroethane	5	3.52	3.37	3.37	3.37	3.37	3.37	1.9	3.64	4.06	4.06
Trichloroethylene	2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	<	1.0	1.0
Vinyl Chloride	2	<	3.0	<	3.0	<	3.0	4.00	<	4.00	6.00
Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	4.00	<	4.00	6.00

Bold Font Indicates Detected Parameter

_* Parameter not analyzed
< or U Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte.
J The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch. Result is less than the RL but greater than or equal to the MDL.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
RL for parameter is greater than MCL
Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)			MW-19			D-01			MW-19			MW-20			MW-20			MW-20			MW-20		
	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	C/N <	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	C/N <	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	C/N <	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	C/N <	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	C/N <	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	C/N <
Acetone	5.500	810	<	3.84	10.0	3.38	<	10.0	70	25	<	25	10.0	77.6	<	20	11/2/1997	1.0	<	1.0	10/20/1998	68.8	<	40
1,1-Dichloroethane (Ethylene dichloride)	5	1.00	<	1.00	7	4.19	<	3.95	17.3	10	<	10	7.14	61.2	<	73.4		2.0				2.0		
cis-1,2-Dichloroethylene	70	3.09	<	2.69	100	1.00	<	1.00	90	230	<	10	4.6	221	<	219		1.0				1.0		
trans-1,2-Dichloroethylene	6.1	12	<	7.0	12	1.00	<	5.0	120	10	<	10	10	3.2	<	3.2		1.0				1.0		
1,4-Dioxane	5	5.00	<	5.00	5	5.00	<	5.00	100	10	<	10	10	10	<	10		1.0				1.0		
Methylene Chloride (Dichloromethane)	5	50.5	50.5	49.9	5	45.5	45.5	49.9	1.800	1.020	<	10	1.00	1.00	<	1.00		1.0				1.0		
Tetrachloroethylene (Perchloroethylene)	200	13.4	<	12.2	200	9.35	<	9.35	760	316	<	100	1.00	1.00	<	1.00		1.0				1.0		
1,1,1-Trichloroethane	5	1.00	<	1.00	5	1.00	<	1.00	20	14.4	<	100	1.00	1.00	<	1.00		1.0				1.0		
Trichloroethylene	5	4.14	<	3.50	5	5.23	<	26	38.2	51.2	<	100	1.00	1.00	<	1.00		1.0				1.0		
Vinyl Chloride	2	1.00	<	1.00	2	3.00	<	3.00	30	3.0	<	100	1.00	1.00	<	1.00		1.0				1.0		
Xylenes (total)		10.00	<	3.00		3.00	<	3.00	30	3.0	<	100	1.00	1.00	<	1.00		1.0				1.0		

Bold Font Indicates Detected Parameter

...^a Parameter not analyzed
 < or U Not detected at Reporting Limit
 C/N The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
 C9 Calibration Verification recovery was outside the method control limits for this analyte.
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 and the concentration is an approximate value.
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 Detected parameter exceeds MCL

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)	MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		
		Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)
Acetone	5,500	<	20	<	810	68.3	<	74.1	<	49.2	<	43.3	<	20	<	20.0	<	20.0
1,1-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	7	57.7	54.2	17.1	33	47.7	45.9	57.3	40.5	1.0	<	1.0	47.9	
cis-1,2-Dichloroethene	70	168	275	182	30	279	182	3.2	3.2	3.2	3.2	3.9	4.03	4.45	124	176	90.9	
trans-1,2-Dichloroethene	100	1.8	<	<	6.1	<	<	<	<	<	<	<	<	<	32.5	43.8	32.5	
1,4-Dioxane	5	<	10	<	5	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	5.0	
Methylene Chloride (Dichloromethane)	5	1,200	915	848	5	1,200	915	848	1,330	1,250	1,080	1,090	590	590	590	590	590	
Tetrachloroethene (Perchloroethene)	200	233	222	102	200	233	222	102	168	168	143	143	121	121	121	121	121	
1,1,1-Trichloroethane	5	8.1	7.1	6.5	5	42.2	48.6	35.8	46.8	56.4	39.8	50.2	45.7	3.84	3.84	3.84	3.84	
Trichloroethene	2	<	<	<	2	<	<	<	1.0	<	1.0	<	1.0	<	1.0	1.0	1.0	
Vinyl Chloride	10,000	<	3.0	<	3.0	<	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	3.0	
Xylenes (Total)																		

Bold Font Indicates Detected Parameter

^a Parameter not analyzed
 < or U Not detected at Reporting Limit
 CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
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 M1 The MS and/or MSD were outside control limits.
 R Sample duplicate RPD exceeded the laboratory control limit.
 RL for parameter exceeds MCL
 Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)			MW-20																		
	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	
Acetone	5.500	<	20.0	<	47.7		10.0	<	10.0	<	50.0		27.6	<	26.5	<	10.0	<	10.0	<	30.2	
1,1-Dichloroethane (Ethylene dichloride)	810				41.1		27.2		15.8		5.0		5.0		27.6		1.00		1.00		1.00	
1,1-Dichloroethene	5	<	1.0	<	1.0		5.0		5.0		5.0		5.0		25.3		21.0		89.6		89.6	
cis-1,2-Dichloroethene	7		50.6		36.2		62.8		71.6		71.6		71.6		57.4		57.4		55.8		55.8	
trans-1,2-Dichloroethene	70		14.0		107		90.4		41.4		5.0		5.0		2.37		2.37		2.98		2.98	
1,4-Dioxane	100		3.4		6.39		5.39		5.39		5.39		5.39		39		39		42		42	
Methylene Chloride (Dichloromethane)	6.1	<	30		83		66		66		66		66		25		25		5.00		5.00	
Tetrachloroethene (Perchloroethene)	5		5.0		5.0		5.0		5.0		5.0		5.0		88.8		88.8		53.5		53.5	
1,1,1-Trichloroethane	200		96.7		642		642		582		582		582		408		408	CIN	71.9		71.9	
1,1,2-Trichloroethane	5		3.57		102		102		45.3		45.3		45.3		65.8		65.8		67.0		67.0	
Trichloroethene	5		30.4		3.1		2.69		5.0		5.0		5.0		2.69		2.69		1.65		1.65	
Vinyl Chloride	2		1.0		2.96		2.96		2.96		2.96		2.96		23.2		23.2		21.7		22.4	
Xylenes (total)			10.00		3.0		3.0		3.0		3.0		3.0		5.0		5.0		1.00		1.00	

Bold Font Indicates Detected Parameter

a Parameter not analyzed
< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration verification recovery was outside the method control limits for this analyte.

J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MDL were outside control limits.

R Sample duplicate RSD exceeded the laboratory control limit

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results:
Volatile Organic Compound MCL Limits

MCL ($\mu\text{g/L}$)	MW-20		MW-29		MW-R30		MW-R30		MW-R30		MW-R30		MW-R30		
	Date Sampled:	10/19/2011 <th>Date Sampled:</th> <td>10/22/2002<th>Date Sampled:</th><td>10/22/2002<th>Date Sampled:</th><td>11/17/2003<th>Date Sampled:</th><td>11/09/2004<th>Date Sampled:</th><td>11/15/2005<th>Date Sampled:</th><td>11/14/2006<th>Date Sampled:</th><td>10/09/2007</td></td></td></td></td></td></td>	Date Sampled:	10/22/2002 <th>Date Sampled:</th> <td>10/22/2002<th>Date Sampled:</th><td>11/17/2003<th>Date Sampled:</th><td>11/09/2004<th>Date Sampled:</th><td>11/15/2005<th>Date Sampled:</th><td>11/14/2006<th>Date Sampled:</th><td>10/09/2007</td></td></td></td></td></td>	Date Sampled:	10/22/2002 <th>Date Sampled:</th> <td>11/17/2003<th>Date Sampled:</th><td>11/09/2004<th>Date Sampled:</th><td>11/15/2005<th>Date Sampled:</th><td>11/14/2006<th>Date Sampled:</th><td>10/09/2007</td></td></td></td></td>	Date Sampled:	11/17/2003 <th>Date Sampled:</th> <td>11/09/2004<th>Date Sampled:</th><td>11/15/2005<th>Date Sampled:</th><td>11/14/2006<th>Date Sampled:</th><td>10/09/2007</td></td></td></td>	Date Sampled:	11/09/2004 <th>Date Sampled:</th> <td>11/15/2005<th>Date Sampled:</th><td>11/14/2006<th>Date Sampled:</th><td>10/09/2007</td></td></td>	Date Sampled:	11/15/2005 <th>Date Sampled:</th> <td>11/14/2006<th>Date Sampled:</th><td>10/09/2007</td></td>	Date Sampled:	11/14/2006 <th>Date Sampled:</th> <td>10/09/2007</td>	Date Sampled:
Analytical Parameter	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	Qualifier	Result ($\mu\text{g/L}$)	
Acetone	CIN <	5.500	CIN <	10.0	<	20.0	<	20.0	<	20.0	<	20.0	<	10.0	<
1,1-Dichloroethane		810		15.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<
1,2-Dichloroethane (Ethylene dichloride)		5		10.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<
1,1-Dichloroethene		7		20.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<
cis-1,2-Dichloroethene		70		34.9	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<
trans-1,2-Dichloroethene		100		10.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<
1,4-Dioxane		6.1		34		— ^a		— ^a		— ^a		— ^a		— ^a	
Methylene Chloride (Dichloromethane)		5		50.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<
Tetrachloroethene (Perchloroethene)		5		452		6.1		14		1.4		1.0		1.0	
1,1,1-Trichloroethane		200		55.8		11		10.0		1.0		1.0		1.0	
1,1,2-Trichloroethane		5		10.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<
Trichloroethene		5		16.4		4.3		1.0		1.0		1.0		1.0	
Vinyl Chloride		2		10.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<
Xylenes (total)		10.000		30.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<

Bold Font Indicates Detected Parameter

^a Parameter not analyzed
 < or U Not detected at Reporting Limit
 CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
 C9 Calibration Verification recovery was outside the method control limits for this analyte.
 J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
 L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
 M1 The MS and/or MSD were outside control limits.
 R Sample duplicate RPD exceeded the laboratory control limit.
 RL for parameter is greater than MCL
 Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-R30		MW-R30		MW-R30		MW-R30		MW-R30		MW-R30		MW-31		MW-31		
	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	
Acetone	5,500	<	10.0	<	10.0	<	10.0	<	10.0	CIN,<	10.0	CIN,<	10.0	CIN,<	10.0	25	<	20	
1,1-Dichloroethane (Ethylene dichloride)	810	<	1.0	<	1.0	<	1.0	<	1.0	C9,<	1.00	C9,<	1.00	C9,<	1.00	5.0	<	1.0	
1,1-Dichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	2.00	2.00	2.00	2.00	2.00	2.00	5.0	<	2.0	
cis-1,2-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0	C9,<	2.00	C9,<	2.00	C9,<	2.00	5.0	<	2.0	
trans-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0	<	1.0	1.00	1.00	1.00	1.00	1.00	1.00	5.0	<	1.0	
1,4-Dioxane	100	<	1.0	<	1.0	<	1.0	<	1.0	1.00	1.00	1.00	1.00	1.00	1.00	5.0	<	1.0	
Methylene Chloride (Dichloromethane)	6.1	<	---	<	---	<	---	<	---	---	---	---	---	---	---	---	<	---	
Tetrachloroethene (Perchloroethene)	5	<	5.00	<	5.00	<	5.00	<	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.0	<	5.0	
1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0	10.2	10.2	10.2	10.2	10.2	10.2	24.9	<	10.2	
1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	3.07	3.07	3.07	3.07	3.07	3.07	36	<	3.07	
Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.07	<	1.00	
Vinyl Chloride	2	<	1.0	<	1.0	<	1.0	<	1.0	M1	37.6	37.6	37.6	37.6	37.6	37.6	59.2	<	37.6
Xylenes (total)		10.00	<	3.0	<	4.00	<	3.0	<	C9,<	1.00	1.00	1.00	1.00	1.00	1.00	19	<	1.00
										6.00	3.00	3.00	3.00	3.00	3.00	3.0	<	3.0	

Bold Font Indicates Detected Parameter

---^a Parameter not analyzed

< or U Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte.

J Result is less than the RL but greater than or equal to the MDL.

L1 and the concentration is an approximate value.
Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

R_L for parameter is greater than MCL

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)			MW-31																			
	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier		
Volatile Organic Compounds																							
Acetone	5.500	<	20	10/20/1998	20	<	10/20/1999	20	<	11/09/2000	20	<	11/06/2001	20	<	10/22/2002	20.0	<	11/17/2003	20.0	<	11/08/2004	20.0
1,1-Dichloroethane	810	<	1.0		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0
1,2-Dichloroethene (Ethylene dichloride)	5	<	1.0		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0
1,1-Dichloroethene	7	<	2.0		2.0	<		2.0	<		2.0	<		2.0	<		2.0	<		2.0	<		2.0
cis-1,2-Dichloroethene	70	<	1.0		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0
trans-1,2-Dichloroethene	100	<	1.0		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0
1,4-Dioxane	6.1	<	---		---	<		---	<		---	<		---	<		---	<		---	<		---
Methylene Chloride (Dichloromethane)	5	<	10		10	<		10	<		10	<		10	<		10	<		10	<		10
Tetrachloroethene (Perchloroethene)	5	<	10		10	<		10	<		10	<		10	<		10	<		10	<		10
1,1,1-Trichloroethane	200	<	10		10	<		10	<		10	<		10	<		10	<		10	<		10
1,1,2-Trichloroethane	5	<	1.0		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0
Trichloroethene	5	<	1.0		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0	<		1.0
Vinyl Chloride	2	<	---		---	<		---	<		---	<		---	<		---	<		---	<		---
Xylenes (total)	10.00	<	3.0		3.0	<		3.0	<		3.0	<		3.0	<		3.0	<		3.0	<		3.0

Bold Font Indicates Detected Parameter

- a Parameter not analyzed
- < or U No detected at Reporting Limit
- CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
- C9 Calibration Verification recovery was outside the method control limits for this analyte.
- J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
- L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
- M1 The MSL and/or MDL were outside control limits.
- R Sample duplicate RPD exceeded the laboratory control limit
- RL for parameter is greater than MCL**
- Detected parameter exceeds MCL**

Sauer Danfoss
 2800 East 13th Street
 Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-31		MW-31		MW-31		MW-31		MW-31		MW-31		MW-31		MW-31		
	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/l}$)	Qualifier	
Acetone	5.500	<		11/13/2006	10.0	<	10/08/2007	10.0	<	10/27/2008	10.0	<	10/15/2009	10.0	<	10/20/2010	10.0	<	
1,1-Dichloroethane (Ethylene dichloride)	810	<			1.0	<		1.0	<		1.0	<		1.0	<		1.0	<	
1,1-Dichloroethylene	5	1.0			1.0			1.0			1.0			1.0			1.0		
Cis-1,2-Dichloroethene	7	2.0			2.0			2.0			2.0			2.0			2.0		
trans-1,2-Dichloroethene	70	1.0			1.0			1.0			1.0			1.0			1.0		
1,4-Dioxane	100	<			1.0			1.0			1.0			1.0			1.0		
Methylene Chloride (Dichloromethane)	6.1	<			<			<			<			<			<		
Tetrachloroethene (Perchloroethylene)	5	5.0			5.0			5.0			5.0			5.0			5.0		
1,1,1-Trichloroethane	200	<			1.0			1.0			1.0			1.0			1.0		
1,1,2-Trichloroethane	5	1.0			1.0			1.0			1.0			1.0			1.0		
Trichloroethylene	5	1.0			1.0			1.0			1.0			1.0			1.0		
Vinyl Chloride	2	1.0			1.0			1.0			1.0			1.0			1.0		
Water	10.00	<			3.0	<		3.0	<		4.0	<		6.0	<		3.0	<	

Bold Font Indicates Detected Parameter

---^a Parameter not analyzed
 < or U Not detected at Reporting Limit
 CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8230B/8270C.
 CG Calibration Verification recovery was outside the method control limits for this analyte.
 J The LCS for this analyte met C/CV acceptance criteria, and was used to validate the batch.
 Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
 L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
 M1 The MS and/or MSD were outside the control limits.
 R Sample duplicate RPD exceeded the laboratory control limit.
 RL for parameter is greater than MCL
 Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)			MW-32			MW-32			MW-32			MW-32			MW-32			MW-32				
	Date Sampled:	Sep-Oct 1994 ^c	Date Sampled:	11/21/1997	Date Sampled:	10/20/1999	Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/08/2004	Date Sampled:	11/14/2006	Date Sampled:	10/28/2008							
	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier	Result ($\mu\text{g/l}$)	Qualifier		
Acetone																							
1,1-Dichloroethane		5,500		810		5,0		25		20		20		20		20.0		100		10		10	
1,2-Dichloroethane (Ethylene dichloride)																							
1,1-Dichloroethene		5		5		5.0		5.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
dis-1,2-Dichloroethene		7		7		5.0		5.0		2.0		2.0		2.0		2.0		2.0		2.0		2.0	
trans-1,2-Dichloroethene		100		100		5.0		5.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
1,4-Dioxane		6.1		---		---		---		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Methylene Chloride (Dichloromethane)		5		5		5.0		10		10		10		10		10		10		10		10	
Tetrachloroethene (Perchloroethene)		5		5		5.0		220		220		220		220		220		220		220		220	
1,1,1-Trichloroethane		200		200		5.0		10		10		10		10		10		10		10		10	
1,1,2-Trichloroethane		5		5		5.0		10		10		10		10		10		10		10		10	
Trichloroethene		5		5		5.0		10		10		10		10		10		10		10		10	
Vinyl Chloride		2		2		---		---		---		---		---		---		---		---		---	
Xylenes (total)		10,000		10,000		5.0		30		30		30		30		30		30		30		30	

Bold Font Indicates Detected Parameter

—^a Parameter not analyzed
< or U Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.
R_L for parameter is greater than MCL
Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

MCL ($\mu\text{g/L}$)	MW-32		MW-32		MW-33									
	Date Sampled:	Result ($\mu\text{g/l}$)												
Volatile Organic Compounds														
Acetone														
1,1-Dichloroethane (Ethylene dichloride)	5.500	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<
1,1-Dichloroethene	810	C9<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<
cis-1,2-Dichloroethene		5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
trans-1,2-Dichloroethene		70	C9<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
1,4-Dioxane		100	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
Methylene Chloride (Dichloromethane)		6.1	<	---	<	---	<	---	<	6	<	5.19	<	5.19
Tetrachloroethylene (Perchloroethylene)		5	<	1.00	<	1.00	<	1.00	<	5.0	<	5.0	<	5.0
1,1,1-Trichloroethane		200	<	5.00	<	5.00	<	5.00	<	10	<	10	<	10
1,1,2-Trichloroethane		5	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0
Trichloroethene		5	<	2.50	<	2.50	<	2.50	<	1.0	<	1.0	<	1.0
Vinyl Chloride		2	C9<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0
Xylenes (Total)		10.00	<	6.00	<	3.00	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

- ^a** Parameter not analyzed
- < or U** Not detected at Reporting Limit
- CIN** The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the <15% criteria specified in EPA methods 8260B/8270C.
- C9** Calibration Verification recovery was outside the method control limits for this analyte.
- J** The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch. Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
- L1** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
- M1** The MS and/or MSD were outside control limits.
- R** Sample duplicate RPD exceeded the laboratory control limit.
- Detected parameter exceeds MCL**

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-33		MW-33		MW-33		MW-33		MW-33		MW-33		
	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier	Date Sampled:	Result ($\mu\text{g/L}$)	Qualifier
Acetone	5.500	<	10.0	10/15/2009	<	10.0	10/20/2010	<	10.0	03/31/2011	<	10.0	07/17/2011	<	10.0
1,1-Dichloroethane	810	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
1,2-Dichloroethane (Ethylene dichloride)	5	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
1,1-Dichloroethene	7	<	2.00	10/15/2009	<	2.00	10/20/2010	<	2.00	03/31/2011	<	2.00	07/17/2011	<	2.00
cis-1,2-Dichloroethene	70	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
trans-1,2-Dichloroethene	100	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
1,4-Dioxane	61	<	2.00	10/15/2009	<	2.00	10/20/2010	<	2.00	03/31/2011	<	2.00	07/17/2011	<	2.00
Methylene Chloride (Dichloromethane)	5	<	5.00	10/15/2009	<	5.00	10/20/2010	<	5.00	03/31/2011	<	5.00	07/17/2011	<	5.00
Tetrachloroethene (Perchloroethene)	5	3.18	54.6	10/15/2009	3.18	54.6	10/20/2010	3.95	3.95	03/31/2011	1.00	3.55	07/17/2011	1.00	3.55
1,1,1-Trichloroethane	200	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
1,1,2-Trichloroethane	5	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
Trichloroethene	5	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
Vinyl Chloride	2	<	1.00	10/15/2009	<	1.00	10/20/2010	<	1.00	03/31/2011	<	1.00	07/17/2011	<	1.00
Xylenes (Total)			10.00			4.00			3.00		R<		3.00		3.00

Bold Font Indicates Detected Parameter

Parameter not analyzed

< or U

CIN Not detected at Reporting Limit

The % RSD for this compound was above 15%. The average % RSD for all compounds

in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

Calibration Verification recovery was outside the method control limits for this analyte.

The LCS for this analyte met CCV acceptance criteria and was used to validate the batch.

J Result is less than the RL but greater than or equal to the MDL

and the concentration is an approximate value.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was

outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

Detected parameter exceeds MCL

Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

Analytical Parameter	MCL ($\mu\text{g/L}$)		MW-34		MW-34		MW-34		MW-34	
	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)	Date Sampled:	Result ($\mu\text{g/L}$)
Volatile Organic Compounds										
Acetone	5,500	<	810	C9,<	10.0	C1N,<	10.0	L1,<	10.0	10.0
1,1-Dichloroethane (Ethylene dichloride)	5	<	1.00	<	1.00	<	1.00	<	1.00	1.00
1,1-Dichloroethene	7	C9,<	2.00	<	2.00	<	2.00	<	2.00	2.00
cis-1,2-Dichloroethene	70	C9,<	1.00	<	1.00	<	1.00	<	1.00	1.00
trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	1.00	<	1.00	1.00
1,4-Dioxane	6.1	<	2.0	<	2.0	<	2.0	<	2.0	1.0
Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.00	<	5.00	5.00
Tetrachloroethene (Perchloroethylene)	5	C1N,<	1.00	10.7	<	1.00	<	1.00	<	1.00
1,1,1-Trichloroethane	200	<	5.00	<	5.00	<	5.00	<	5.00	1.00
1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	1.00	<	1.00	1.00
Trichloroethylene	5	<	1.00	<	1.00	<	1.00	<	1.00	1.00
Vinyl Chloride	2	C9,<	1.00	6.00	<	1.00	C1N,<	1.00	<	1.00
Xylenes (total)		10.00		3.00	<	3.00	<	3.00	<	3.00

Bold Font Indicates Detected Parameter

a Parameter not analyzed

< or U Not detected at Reporting Limit

C1N The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B&270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria and was used to validate the batch.

J Result is less than the RL but greater than or equal to the MDL.

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit.

Detected parameter exceeds MCL